MULTIMEDIA UNIVERSITY®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2019/2020

DWP5431 – INTERNET AND WEB PUBLISHING

(All IT Groups)

5 MARCH 2020
2:30 p.m. – 4:30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS:

1. This question paper consists of **9** pages.
2. Answer **ALL** questions.
3. Write your answers in the answer booklet provided.

Structured Questions, 4 Questions (Total: 40 Marks)
Instruction: *Answer ALL questions from this section in the Answer Booklet provided.*

Question 1 – HTML (10 Marks)

(a) Write the HTML codes to display the table shown below. Set the *table width* to 500px. [6 Marks]

Phone Spec Comparison

Phone Type	Xiaomi Redmi Note 8 Pro	Oppo Reno 2
Phone Spec	Hybrid Dual Sim	
	• Weight:200g • Size:6.53 inches	i. Weight:189g ii. Size:6.5 inches

Figure 1: Sample output

(b) Write the HTML codes for the following.

i. Create a drop down box to accommodate subject English, Mathematics and Science and choose Mathematics as the default value. [2 Marks]

ii. Create an image hyperlink using *contact.jpg* and link it to the email address *enquiry@mmu.edu.my*. [2 Marks]

Question 2 – CSS (10 Marks)

(a) Write the Internal CSS codes for table design shown below. The HTML codes are given for your reference. [10 Marks]

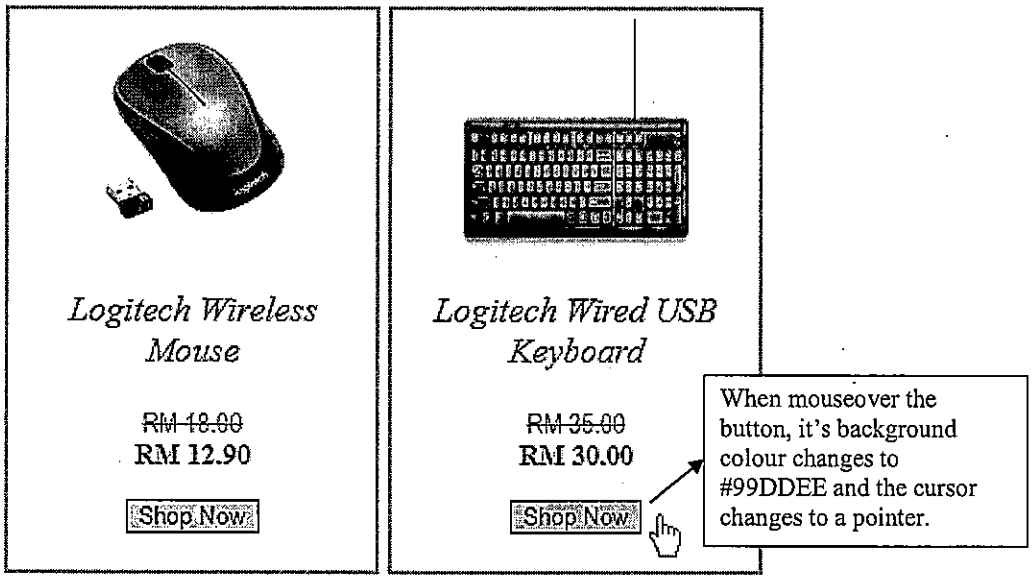
Logitech Wireless Mouse
~~RM 18.00~~
RM 12.90
Shop Now
Logitech Wired USB Keyboard
~~RM 35.00~~
RM 30.00
Shop Now
When mouseover the button, it's background colour changes to #99DDEE and the cursor changes to a pointer.

Figure 2: Sample output

Continued...

```
<div id="product">
      <img src="mouse.jpg" />
      <p class="name">Logitech Wireless Mouse</p>
      <p>
            <span class="old-price">RM 18.00</span>
            <br /><span class="new-price">RM 12.90</span>
      </p>
      <p><input type="submit" name="sendbtn" value="Shop Now" /></p>
</div>

<div id="product">
      <img src="keyboard.jpg" />
      <p  class="name">Logitech Wired USB Keyboard</p>
      <p>
            <span class="old-price">RM 35.00</span>
            <br /><span class="new-price">RM 30.00</span>
      </p>
      <p><input type="submit" name="sendbtn" value="Shop Now" /></p>
</div>
```

Figure 3: HTML code snippet

Guides

- The *Product* box:
  - The width is 200px.
  - The background colour is white.
  - The borders are single lined with a thickness of 2px and the colour is orange.
  - The boxes float to the left.
  - The contents are center aligned.
  - The space between the content and the borders is 5px.
  - Set the right margin of 7px between the boxes.
- Image inside the product:
  - The height and width is 130px.
- The product name:
  - The names are in italic and the size is 1.25em.
- Old price:
  - Uses Arial Narrow font.
  - The font colour is red.
  - There is a line through the price.
- New price:
  - It is bold and blue.
- Button:
  - Has a single line 1px black border and the background colour is #EEDD99.
  - On mouseover, it's background colour changes to #99DDEE and the cursor changes to a pointer.

Continued...

Question 3 – JAVACSRIPT (10 Marks)

This is a basic redemption program for Happy Mart. The descriptions and outputs are shown below.

(a) Write the JavaScript codes for the *check()* function to validate the input provided by user. [4 Marks]

- A form named "redemption" has the following elements.

```
<h3>Happy Mart Redemption Program </h3>
<form name="redemption">

<p>Redemption points <input type="text" name="points">
<br> <i><span id="points_display">   </span></i>
</p>

<p>Redemption type :
<br><input type="radio" name="type" value="voucher">RM 10 Cash Voucher<i>(requires 2000
points) </i>
<br><input type="radio" name="type" value="renew" >Membership Renewal <i>(requires 3000
points) </i>
</p>


<p><input type="button" name="sub_btn" value="Check" onclick="check()"> </p>

<p><span id="display">   </span> </p>
</form>
```

Figure 4: HTML code snippet

- When checkbox is checked, *check()* will be called.
- In function *check()*:
  - Declare all the necessary variables.
  - Get the user's redemption points and redemption type from the form.
  - User's redemption points **must not** be null and it must be digit and a positive value. Otherwise an error message "*Please enter a valid points*" will be displayed by using inner HTML property.
  - If input is valid, call function *get_redemption(...)* by passing user's redemption's points and type of redemption.

(b) Write the JavaScript codes for *get_redemption(...)* to identify type of redemption and calculate the remaining points of user. [6 Marks]

- In function *get_redemption(...)*:
  - Declare all the necessary variables.
  - Use a *switch case* statement:
    - To determine required points based on redemption type.
    - If selected type is *Cash Voucher*:
      - Check the points and display a message to user if the points are insufficient to redeem a voucher.
      - If the points are sufficient, calculate the eligible unit of voucher and remaining points will be shown using inner HTML property as shown in the sample output (*id= display*).

Continued...

- If selected type is *Membership Renewal*, using *if else* statement to:
    - Check the points and display a message to user as the points are insufficient to renew membership.
    - If the points are sufficient, remaining points will be shown using inner HTML property as shown in the sample output (*id= display*).

SAMPLE OUTPUT

- If the user key in the invalid input.

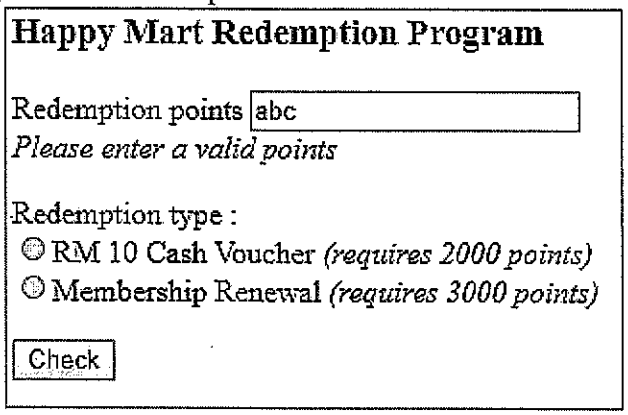
Happy Mart Redemption Program
Redemption points abc
Please enter a valid points
Redemption type :
RM 10 Cash Voucher (requires 2000 points)
Membership Renewal (requires 3000 points)
Check

Figure 5: Sample output if user key in invalid input

- If the user fills out the valid points and clicks on the "Check" button, the relevant information will be displayed.

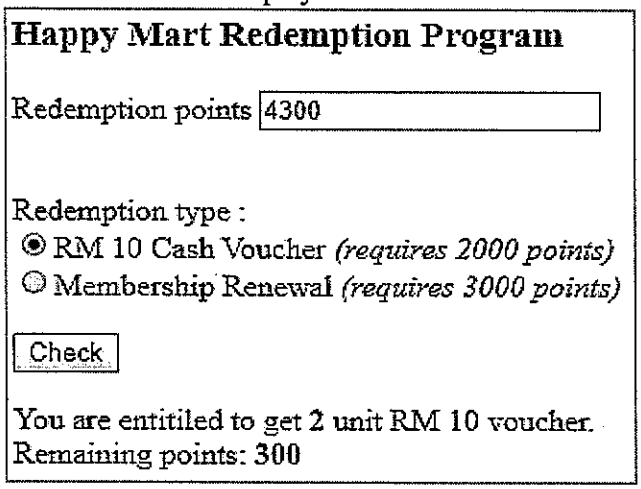
Happy Mart Redemption Program
Redemption points 4300
Redemption type :
RM 10 Cash Voucher (requires 2000 points)
Membership Renewal (requires 3000 points)
Check
You are entitiled to get 2 unit RM 10 voucher.
Remaining points: 300

Figure 6: Sample output if user chooses cash voucher

Continued...

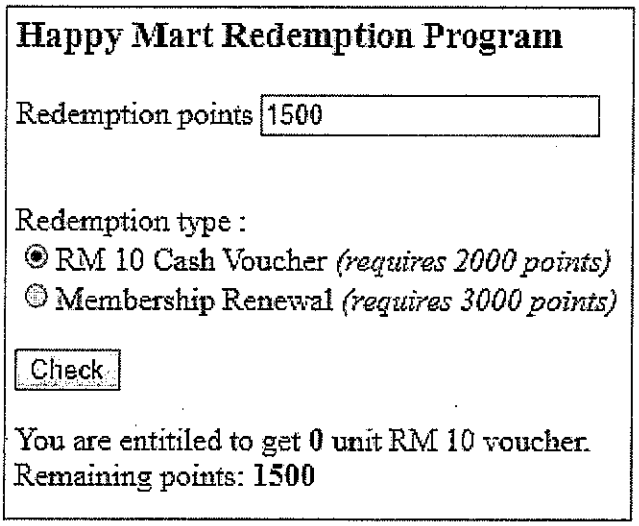
Happy Mart Redemption Program
Redemption points 1500
Redemption type :
RM 10 Cash Voucher (requires 2000 points)
Membership Renewal (requires 3000 points)
Check
You are entitiled to get 0 unit RM 10 voucher.
Remaining points: 1500

Figure 7: Sample output if the redemption points for cash voucher are insufficient

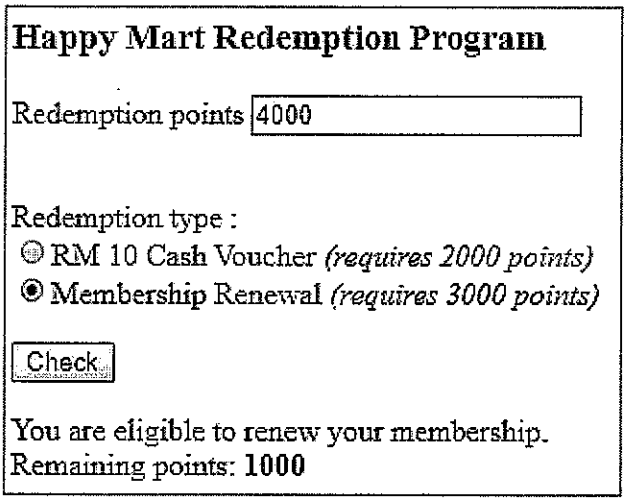
Happy Mart Redemption Program
Redemption points 4000
Redemption type :
RM 10 Cash Voucher (requires 2000 points)
Membership Renewal (requires 3000 points)
Check
You are eligible to renew your membership.
Remaining points: 1000

Figure 8: Sample output if user chooses membership renewal

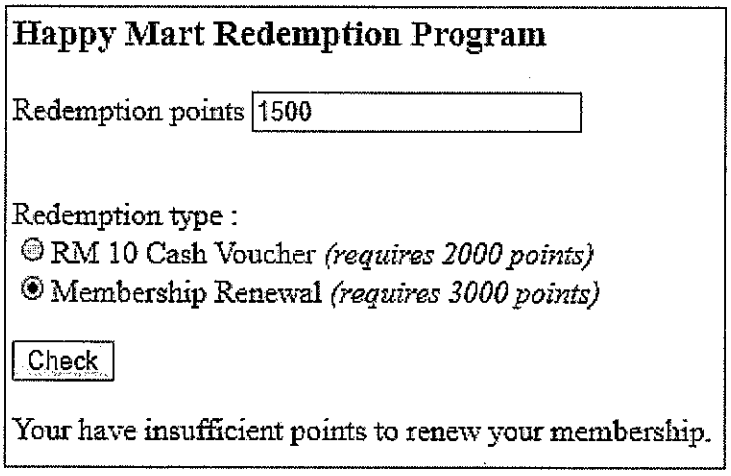
Happy Mart Redemption Program
Redemption points 1500
Redemption type :
RM 10 Cash Voucher (requires 2000 points)
Membership Renewal (requires 3000 points)
Check
Your have insufficient points to renew your membership.

Figure 9: Sample output if the redemption points for membership renewal are insufficient

Continued...

Question 4 – PHP (10 Marks)

Green Seed Market requires you to develop a simple grocery management system to handle the stocks of their grocery items. Tables below are the database tables for the system development.

Table 1. *category* table

cat_ID	cat_name
1	Canned Goods & Soups
2	Electronics
3	Fruits & Vegetables
4	Bread & Bakery
5	Beverages
6	Meat & Seafood

Table 2. *product* table

product_ID	product_name	product_quantity	product_price	cat_ID
1	AAA battery	15	3.99	2
2	Banana	4	1.99	3
3	Coca-Cola	60	2.60	5
4	Mushroom Soup	20	8.79	1
5	Avocado	150	5.99	3
6	Apple	12	2.50	3

(a) Given the output and an incomplete PHP code of page *insertProduct.php*.

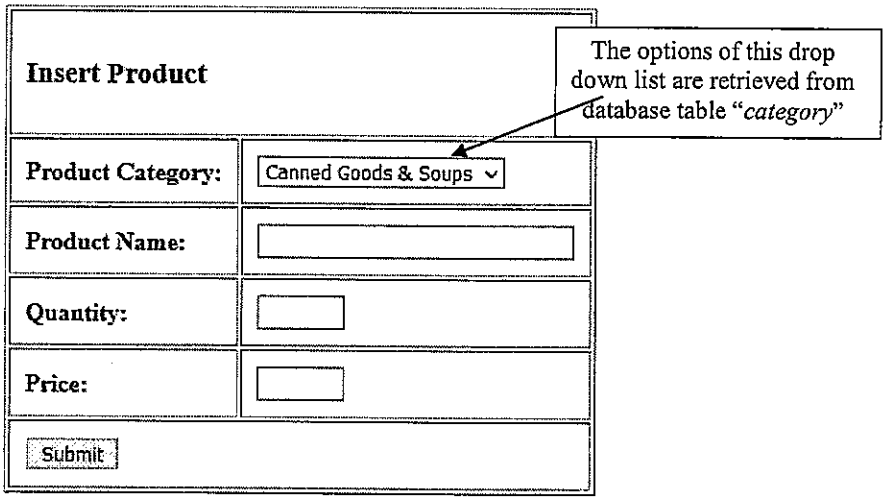

*Figure 10. Sample output of **insertProduct.php**.*

Continued...

```
<!DOCTYPE html>
<html>
<head>
    <?php include 'dbConnect.php';?>

    (ii) PHP Code to insert the product into database table Product

</head>

<body>
    <form action="" method="POST">
    <table cellpadding="10"  border="1px">
        <tr>
            <td colspan="2"><h3>Insert Product</h3></td>
        </tr>
        <tr>
            <td><b>Product Category: </b></td>
            <td>

              (i) Retrieve category name from database table 'category' and
                  display each name using the drop down list

            </td>
        </tr>
        <tr>
            <td><b>Product Name: </b></td>
            <td><input type="text" name="product_name" size="30"></td>
        </tr>
        <tr>
            <td><b>Quantity: </b></td>
            <td><input type="text" name="product_quantity" size="5"></td>
        </tr>
        <tr>
            <td><b>Price: </b></td>
            <td><input type="text" name="product_price" size="5"></td>
        </tr>
            <tr>
            <td colspan="2">
                <input type="submit" name="btn_submit" value="Submit"></td>
        </tr>
    </table>
    </form>
</body>
</html>
```

Figure 11: HTML code snippet

i. Complete the PHP code to display the options of list drop of category. The options are retrieved from the database table named *category*. [2 Marks]

ii. Complete the PHP code to insert a product into database's table named *product* when the submit button is clicked. [3 marks]

Continued...

(b) The system contains a simple search feature based on the category of the grocery product.

- All products will be shown if "*ALL*" option are selected, otherwise, only products belong to selected category are shown. If no product found, the table will displays "*NO PRODUCT FOUND !*".
- The system will automatically check the quantity of a product and display "*Low quantity. Please order now !*" at the remark column if the quantity is less than 5.

Complete the PHP code to display all search items in the table based on the search options selected by the user after the "*search*" button is clicked.

[5 Marks]

The sample PHP code and output are given below.

```
<html>
<body>
    <form action="" method="POST">
    <fieldset>
    <legend>Search</legend>
    Category:
    <?php
        $result = mysqli_query($conn, 'SELECT * from category');
        echo "<select name='search_cat'>";
        echo "<option value=\"all\">".ALL."</option>";
        while($row = mysqli_fetch_assoc($result))
        {
         echo"<option value=".$row['cat_ID'].">".$row['cat_name']."</option>";
        }
        echo "</select>";
      ?>
    <input type="submit" name="btn_search" value="Search">
    </fieldset>
    </form>
    <br/><br/>

    <table cellpadding="10" border='1'>
        <tr>
            <th>PRODUCT NAME</th>  <th>PRODUCT QUANTITY</th>
            <th>PRODUCT PRICE</th><th>REMARK</th>
        </tr>

//Q4b) PHP code to display all search items based on the search option
when the search button is clicked

      </table>

</body>
</html>
```

Figure 12: HTML code snippet

Continued...

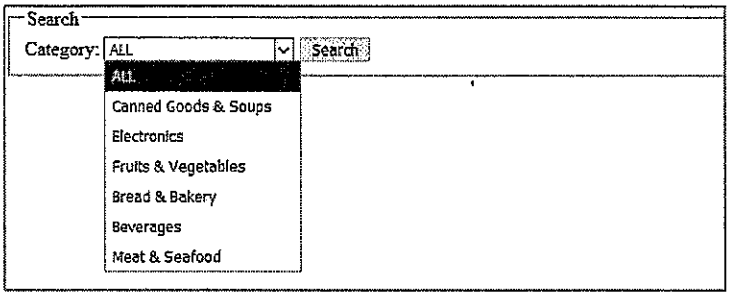

Figure 13. Sample output of search features.

PRODUCT NAME	PRODUCT QUANTITY	PRODUCT PRICE	REMARK
AAA battery	15	RM 3.99	N/A
Banana	4	RM 1.99	Low quantity. Please order now !
Coca-Cola	60	RM 2.6	N/A
Mushroom Soup	20	RM 8.79	N/A
Avocado	150	RM 5.99	N/A
Apple	12	RM 2.5	N/A

*Figure 14. Sample output for searching "**ALL**" category*

PRODUCT NAME	PRODUCT QUANTITY	PRODUCT PRICE	REMARK
Banana	4	RM 1.99	Low quantity. Please order now !
Avocado	150	RM 5.99	N/A
Apple	12	RM 2.5	N/A

*Figure 15. Sample output for searching "**Fruits and Vegetables**" category*

PRODUCT NAME	PRODUCT QUANTITY	PRODUCT PRICE	REMARK
NO PRODUCT FOUND !			

*Figure 16. Sample output for searching "**Meat & Seafood**" category*

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